

SECTION 502 SUPERPAVE ASPHALTIC CONCRETE MIXTURES

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
FOR PROJECTS, OR SEPARATE LOCATIONS WITHIN A PROJECT, REQUIRING LESS THAN 250 TONS, THE JMF, MATERIALS, AND PLANT AND PAVING OPERATIONS SHALL BE SATISFACTORY TO ENGINEER. SEE SUBSECTION 502.14 FOR FURTHER DETAILS.										
ADDITIVES	Anti-Stripping	502.02 1002.02(a) Mat. Lab	Prelim Source Approval	Dist. Lab S 612	1/batch or storage tank	1 pt friction top can	----	----	10 days	(QPL 57)
		502.02 1002.02(a) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment/ plant*	1 pt friction top can	CD 1 & 7	----	10 days	(QPL57) *Sample when not accompanied by CD or questionable.
	Hydrated Lime	502.02 1018.03(a) Mat. Lab	Accept.	Proj. Engr. S 102	1/shipment*	----	CD 1 & 7	----	10 days	(QPL 34) *Sample only if questionable.
AGGREGATES	Combined Aggregates (Moisture Content)	503.03(c) Contractor	Quality Control	Contractor S 101	1/day/plant	1 gal suitable container	----	----	----	----
	All Aggregates	502.02 1003.06(a)(1) Dist. Lab	Verif.	Proj. Engr. S 101	1/source/ plant/size	1 full sample sack	----	----	5 days	(QPL 2) Bulk Specific Gravity G _{sb} .
	Coarse Aggregate (+ No. 4)	502.02 1003.06(a)	Verif.	Proj. Engr. S101	1/source/ plant	1 full sample sack	----	----	5 days	CAA & Flat and Elongated
	Fine Aggregate (- No. 4)	502.02 1003.06(a)(2) Dist. Lab	Verif.	Proj. Engr. S 101	1/source/ plant	1 full sample sack	----	----	5 days	Sand Equivalent and Fine Aggregate Angularity
	Natural Sand	502.02 1003.06(a)(3) Dist. Lab	Verif.	Proj. Engr. S 101	1/source/ plant	1 full sample sack	----	----	5 days	Sand equivalent testing.
	Reclaimed Asphaltic Pavement (RAP)	502.02(c)(2) 1003.06(a)(5) Dist. Lab	Verif.	Proj. Engr. S 101	1/stockpile	3 full sample sacks	----	----	----	% AC, % crushed and gradation, Effective Specific Gravity G _{se} .
	ASPHALT MIX RELEASE AGENT		1018.25 503.13 Proj. Engr.	Accept.*	----	----	----	----	----	(QPL 25) *Visual inspection for performance by Proj. Engr.

SECTION 502 SUPERPAVE ASPHALTIC CONCRETE MIXTURES (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (PLANT)	Anti-Strip Additive, %	502.02(b)(2) Proj. Engr.	Accept.	Proj. Engr. S 605	1/half lot	*	-----	-----	-----	*% AS from meter.
	Asphalt Cement, %	502.02(a) Proj. Engr.	Accept.	Proj. Engr. S 605	1/half lot	*	-----	-----	-----	*% AC from meter.
	Gyratory Specimens	502.03 Contractor	Design	Contractor S 203	1set/JMF	6 briquettes/set	-----	-----	-----	Results submitted with JMF.
	Moisture Sensitivity (Lottman) (Tensile Strength Ratio)	502.04 Contractor	Vaild.	Contractor S 203	1set/JMF	6 briquettes/set	-----	-----	-----	Sampled on first production day after validation.
	Gyratory Specimens (Volumetric)	502.05 Contractor	Quality Control	Contractor S 203	2/sublot	-----	-----	-----	-----	Aged or unaged N_{max} .
		502.06 Proj. Engr.	Accept.	Proj. Engr. S 605	1/sublot	-----	-----	-----	-----	Aged N_{design} .
		502.06 Dist. Lab	Verif.	Proj. Engr.	1/lot	suitably wrapped	-----	-----	5 days	Shall be acceptance samples representing each lot of plant operation.
		502.06(b) Dist. Lab	IA	Dist. Lab S 203	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					
	Job Mix Formula (JMF)	502.03 Contractor	Design	-----	1/mix type	-----	-----	-----	7 days	Contractor shall submit to the Dist. Lab Engr. the proposed job mix formula with supporting design data. Approval is required prior to starting work.
		502.04 Contractor & Proj. Engr.	Vaild.	Contractor & Proj. Engr.	1/JMF	-----	-----	-----	-----	Five samples on 1st day's production or max. 2000 tons for validation.
	Loose Mixture (Theoretical Maximum Specific Gravity) G_{mm}	502.05 Contractor	Quality Control	Contractor S 203	2/sublot	suitable sampling bucket	-----	-----	-----	Aged or unaged samples. May use 1 QA in lieu of 1 QC.
		502.06 Proj. Engr.	Accept.	Proj. Engr. S 203	1/sublot	suitable sampling bucket	-----	-----	-----	-----
		502.06 Dist. Lab	Verif.	Proj. Engr. S 203	1/lot	suitable sampling bucket	-----	-----	-----	-----

		502.06 Dist. Lab	IA	Dist. Lab S 203	SEE INDEPENDENT ASSURANCE PROGRAM S 701.
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SECTION 502 SUPERPAVE ASPHALTIC CONCRETE MIXTURES (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (Plant) (Cont'd)	Loose Mixture (Asphalt Coating)	503.08 Contractor	Design/ Quality Control	Contractor S 203	*	1 gal friction top can	-----	-----	-----	*Sample only if coating is questionable.
		503.08 Proj. Engr.	Accept.	Proj. Engr. S 203	*	1 gal friction top can	-----	-----	1 day	*Sample only if coating is questionable.
	Loose Mixture (Gradation, % AC and % Crushed	502.05 Contractor	Quality Control	Contractor S 203 & S 605	1/sublot*	suitable sampling bucket	-----	-----	-----	*Used for PWL calculations
	Loose Mixture (Moisture Content)	502.05 Contractor	Design/ Quality Control	Contractor S 203	1/lot	1 gal friction top can	-----	-----	-----	-----
	Loose Mixture* (Temperature)	503.08 Contractor	Quality Control	Contractor S 605	2/sublot	-----	-----	-----	-----	*Temperature of mixture at discharge chute.
		502.03 Proj. Engr.	Accept.	Proj. Engr. S 605	1/sublot	-----	-----	-----	1 day	*Temperature of mixture in truck at plant.

SECTION 502 SUPERPAVE ASPHALTIC CONCRETE MIXTURES (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (IN-PLACE)	Density	502.11(a) Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	3/sublot*	4 or 6 in. diameter core	-----	-----	1 day	* For different mix uses take 1 additional core/mix use. For validation lots take 1 core/validation subplot, 5 total
		502.11(a) Dist. Lab	Verif.	Proj. Engr. S 203 & S 605	1/sublot	4 or 6 in. diameter core	-----	-----	5 days	1 per subplot of the acceptance samples.
		502.11(a) Dist. Lab	IA	Dist. Lab S 203	SEE INDEPENDENT ASSURANCE PROGRAM S 701					
	Longitudinal Surface Tolerance	502.10(b) Contractor	Quality Control	Contractor TR 644	each wheelpath segment	-----	-----	-----	-----	Applies to travel lane wearing and binder. Applies to shoulder, parking, airport runway and taxiway wearing.
		502.11(b) Contractor observed by Proj. Engr.	Accept.	Contractor, Observed by Proj. Engr. TR 644	each subplot	-----	-----	-----	2 days	Applies to travel lane wearing and center two lanes for airports.
		502.11(b)(2) Contractor observed by Proj. Engr.	Accept.	Contractor, Observed by Proj. Engr. TR 644	each subplot	-----	-----	-----	1 days	Applies to final wearing on shoulders. Max 110 IRI.
	Loose Mixture* (Temperature)	502.08 Proj. Engr.	Accept.	Proj. Engr. S 605	2/sublot	-----	-----	-----	-----	*At paver hopper or on roadway.
	Transverse Surface Tolerance, Cross Slope and Grade	502.10(b) Contractor	Quality Control	Contractor S 605	2/day*	-----	-----	-----	-----	*As needed to control project within spec. requirements.
		502.11(b) Proj. Engr.	Accept.	Proj. Engr. S 605	1/day*	-----	-----	-----	1 day	*Test at selected locations for conformance to specs.
	Thickness & Width	502.12 Dist. Lab	Accept.	Dist. Lab TR 602	*	-----	-----	300 lin ft per location	3 days	*Applies to mixtures specified for payment on a cubic yard or square yard basis.

SECTION 502 SUPERPAVE ASPHALTIC CONCRETE MIXTURES (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC MATERIAL	Asphalt Cement	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt friction top can	CA 7	-----	5 days	(QPL 41) Non Self Certified. Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified. DOTD results use for approval.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt friction top can	CA 7	-----	2 hrs during working hours	(QPL 41) Self Certified. Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified, and supply CA to Mat. Lab along with 1 qt sample for verification testing. Supplier results used for approval.
		1002 Proj. Engr.	Accept.	-----	-----	-----	CD 8 & 9	-----	5 days	(QPL 41) One (1) CD to accompany each transport.
		1002 Dist. Lab	Verif.	Proj. Engr. S 201	1/plant working tank/day of production	1 qt friction top can	-----	-----	5 days	(QPL 41) Test original binder DSR, including phase angle. If sample does not meet criteria, the plant will be investigated and the Dist. Lab will notify the Proj. Engr., the HMA producer and the Mat. Lab. Rotational viscosity to be tested 1/working tank/week for information. A record of results will be kept on file.
		1002 Mat. Lab	Verif.	Proj. Engr. S 201	1/working tank	1qt friction top can	-----	-----	10 days	Sample after 72 hour shut down period.
		1002 Mat. Lab	Verif.	Proj. Engr. S 201	1 transport/ project/ grade	1 qt friction top can	-----	-----	10 days	(QPL 41) Send directly to Materials Lab for comparison to refinery sample.
Curing Membrane		SEE SECTION 506 OF THIS MANUAL								

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	Prime Coat	SEE SECTION 505 OF THIS MANUAL
	Tack Coat	SEE SECTION 504 OF THIS MANUAL.

SECTION 504 ASPHALTIC TACK COAT

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
THIS SECTION IS TO BE USED AS A GUIDE FOR OTHER ITEM NUMBERS WHEN REFERENCE IS MADE TO SECTION 504 OF THIS MANUAL. THERE ARE NO PAY ITEMS UNDER SECTION 504.										
ASPHALTIC TACK COAT	Emulsified Asphalt	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/storage tank	1 gal plastic bottle	CA 7	-----	5 days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to tank or modified*	1 gal plastic bottle	CA 7	-----	2 hrs during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		504.02 Mat. Lab	Accept.	-----	1/shipment*	1 gal plastic bottle	CD 1 & 7	No CD required if less than 250 gal.	-----	(QPL 41) *Visual inspection by Proj. Engr. Sample only if questionable.
	Rate of Application	504.06 Proj. Engr.	Accept.	Proj. Engr.	1/day	-----	-----	-----	-----	-----

SECTION 505 ASPHALTIC PRIME COAT

MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
	TESTED BY		METHOD		CONTAINER	DISTR.				
THIS SECTION IS TO BE USED AS A GUIDE FOR OTHER ITEM NUMBERS WHEN REFERENCE IS MADE TO SECTION 505 OF THIS MANUAL. THERE ARE NO PAY ITEMS UNDER SECTION 505.										
ASPHALTIC PRIME COAT	Cutback	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/storage tank	1 qt screw top can	CA 7	----	5 days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to tank or modified*	1 qt screw top can	CA 7	----	2 hrs. during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		505.02 Proj. Engr.	Accept.	----	1/shipment*	1 qt screw top can	CD 1 & 7	500 gal	----	(QPL 41) *Visual inspection by Proj. Engr. Sample only if questionable
	Emulsified Asphalt	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/storage tank	1 gal plastic bottle	CA 7	----	5 days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to tank or modified*	1 gal plastic bottle	CA 7	----	2 hrs. during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.

		505.02 Mat. Lab	Accept.	-----	1/shipment*	1 gal plastic bottle	CD 1 & 7	500 gal	-----	(QPL 41) *Visual inspection by Proj. Engr. Sample only if questionable.
	Rate of Application	505.06 Proj. Engr.	Accept.	Proj. Engr.	1/day	-----	-----	-----	-----	-----

SECTION 506 ASPHALTIC CURING MEMBRANE

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
THIS SECTION IS TO BE USED AS A GUIDE FOR OTHER ITEM NUMBERS WHEN REFERENCE IS MADE TO SECTION 506 OF THIS MANUAL. THERE ARE NO PAY ITEMS UNDER SECTION 506.										
ASPHALTIC CURING MEMBRANE	Emulsified Asphalt	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/storage tank	1 gal plastic bottle	CA 7	----	5 days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to tank or modified*	1 gal plastic bottle	CA 7	-----	2 hrs. during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		506.02 Proj. Engr.	Accept.	-----	1/shipment*	1 gal plastic bottle	CD 1 & 7	250 gal	-----	(QPL 41) *Visual inspection by Proj. Engr. Sample only if questionable.
	Emulsified Petroleum Resin	1002.00 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/storage tank	1gal plastic bottle	CA 7	----	5days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to tank or modified*	1 gal plastic bottle	CA 7	-----	2 hrs. during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.

		506.02 Mat. Lab	Accept.	-----	1/shipment*	1 gal plastic bottle	CD 1 & 7	250 gal	-----	(QPL 41) *Visual inspection by Proj. Engr. Sample only if questionable.
	Rate of Application	506.06 Proj. Engr.	Accept.	Proj. Engr.	1 day	-----	-----	-----	-----	-----
	Water	506.02 1018.01 Proj. Engr.	Accept.	Proj. Engr. S 301	1/source	1 qt plastic bottle	-----	250 gal	11 days	Drinkable water need not be sampled.

SECTION 507 ASPHALTIC SURFACE TREATMENT

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
AGGREGATES	Rate of Application	507.06(b) Contractor	Quality Control	Contractor	Prior to first pass of aggregate spreader*	-----	-----	-----	-----	*Must check sufficient to ensure materials being applied meet specification requirements.
		507.06(b) Proj. Engr.	Accept.	Proj. Engr.	First pass of aggregate spreader*	-----	-----	-----	1 day	*Must check sufficient to ensure materials being applied meet specification requirements.
	Size 1,2,3 (for cold application)	507.01 1003.05 Dist. Lab	Accept.	Proj. Engr. S 101	1/1000yd ³ / size	1 full sample sack	CA 1	2,000 yd ²	5 days	(QPL 2)
	Size 1,2,3 (for hot application)	507.01 1003.05 Contractor	Quality Control	Contractor S 101	Sufficient to ensure quality	1 full sample sack	CA 1	2,000 yd ²	-----	(QPL 2) Certification from supplier for asphalt coating & gradation.
ASPHALTIC MATERIAL	Emulsified Asphalt	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/storage tank	1 gal plastic bottle	CA 7	-----	5 days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to a tank or modified*	2-1 gal plastic bottles	CA 7	-----	2 hrs. during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		507.02 1002 Dist. Lab/Mat. Lab if failing or non-verif. material	Accept.*	Proj. Engr. S 201	1/transport or storage tank	2 gal plastic bottle**	CD 1 & 8	-----	5 days or 10 days if failing or non-verif. material	(QPL 41) *Send 1 gal to Mat. Lab for failing or nonverifying material. **Two one-gallon plastic bottles.

		507.02 1002 Mat. Lab	Accept.	*	1/type/ project**	1 gal plastic bottle	-----	2,000 yd ²	10 days	(QPL 41) For complete analysis. *Shall be selected at random by the Dist. Lab from the acceptance samples submitted by the Proj. Engr. **Not required if sampled under another item.
	Rate of Application	507.06(a) Proj. Engr.	Accept.	Proj. Engr. 507.06(a)	1/each pass of distributor	-----	-----	-----	1 day	-----

SECTION 507 ASPHALTIC SURFACE TREATMENT (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC MATERIAL (Cont'd)	Asphalt Cement	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt friction top can	CA 7	-----	5 days	(QPL 41) Non Self Certified. Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified. DOTD results use for approval.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank whenever asphalt is added to a tank or modified*	1 qt friction top can	CA 7	-----	2 hrs. during working hours	(QPL 41) Self Certified *Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added or modified and supply CA to Mat. Lab along with 1 qt sample for verification testing.
		507.02 1002 Dist. Lab/ Mat. Lab if failing or non- verif. material	Accept.*	Proj. Engr. S 201	1/transport or storage tank	2-1qt friction top can	CD 1 & 8	-----	5 days or 10 days if failing or non-verif. material	(QPL 41) *Send 1qt. to Mat. Lab for failing or nonverifying material.
		507.02 1002 Mat. Lab	Accept.	*	1/type/ project**	1 qt friction top can	-----	2,000 yd ²	10 days	(QPL 41) For complete analysis. *Shall be selected at random by the Dist. Lab from the acceptance samples submitted by the Proj. Engr. **Not required if sampled under another item.
	Rate of Application	507.06(a) Proj. Engr.	Accept.	Proj. Engr. 507.06(a)	1/each pass of distributor	-----	-----	-----	1 day	-----

SECTION 508 STONE MATRIX ASPHALT

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ADDITIVES	Anti-Stripping	508.02(c)(1) 1002.02(a) Mat. Lab	Prelim. Source Approval	Dist. Lab S 612	1/batch or storage tank	1 pt friction top can	-----	-----	10 days	(QPL 57)
		508.02(c)(1) 1002.02(a) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment/ plant*	1 pt friction top can	CD 1 & 7	250 tons per location	10 days	(QPL 57) *Sample when not accompanied by CD or questionable.
	Mineral Filler	508.02(c)(2) 1003.06(a)(6) Dist. Lab	Accept.	Proj. Engr. S 102	1/500 tons*	1 gal friction top can	-----	-----	-----	(QPL 10) *Sampling not required for Portland cement or hydrated lime when accompanied by CD.
	Fibers (Mineral or Cellulose)	508.02(c)(3) 1002.02(d)	Accept.	Proj. Engr. S 601	1/shipment*	1 qt friction container	CC	-----	10 days	*Pre-approved by DOTD
AGGREGATES	Combined Aggregates (Moisture Content)	503.03(c) Contractor	Quality Control	Contractor S 101	1/day/plant	1 gal suitable container	-----	-----	-----	
	All Aggregates	1003.06(b) 508.01	Verif.	Proj. Engr. S101	1/source/ plant/size	1 full sample sack	-----	-----	5 days	(QPL 2) Bulk Specific Gravity G_{sb} .
	Coarse Aggregates (+ No. 4)	1003.06(b)(1)	Verif.	Proj. Engr. S 101	1/source/ plant/size	1 full sample sack	-----	-----	5 days	Flat & Elongated.
	Fine Aggregate (- No. 4)	1003.06(b)(2) Dist. Lab	Accept./ Design	Proj. Engr. S 601	1/source/ plant	1 full sample sack	-----	-----	5 days	Fine Aggregate Angularity.
ASPHALT MIX RELEASE AGENT		1018.25 503.13 Proj. Engr.	Accept.*	-----	-----	-----	-----	-----	-----	(QPL 25) *Visual inspection for performance by Proj Engr.

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SECTION 508 STONE MATRIX ASPHALT (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (PLANT)	Anti-Strip Additive, %	508.03 508.04 508.06 Proj. Engr.	Accept.	Proj. Engr. S 605	1/sublot	*	-----	-----	-----	*Range given on JMF, % AS from meter. See QA Manual.
	Asphalt Cement, %	508.05 503.09 Proj. Engr.	Quality Control	Contractor S 605	1/sublot	*	-----	-----	-----	*% AC from meter or scales. See QA Manual.
	Gyratory Specimens (Moisture Sensitivity) (TSR) (Lottman)	508.03 Contractor	Design	Contractor S 203	1 set/JMF	6 briquettes/set	-----	-----	-----	Results submitted with JMF.
		508.04 Contractor	Valid.	S203	1 set/JMF	6 briquettes/set	-----	-----	-----	Sampled on first production day after validation witnessed by Department.
	Gyratory Specimens Volumetric	508.05 Contractor	Quality Control	Contractor S203	2/sublot	-----	-----	-----	-----	Aged or unaged _{max} .
		508.06 Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	1/sublot	suitable sampling bucket	-----	-----	1 day	Aged N _{design} .
		508.06 Dist. Lab	Verif.	Proj. Engr.	1/lot	suitably wrapped	-----	-----	5 days	Shall be an acceptance sample representing each lot of plant operation.
		508.06 Dist. Lab	IA	Dist. Lab S 203	-----	-----	-----	-----	7 days	See Independent Assurance Program S 701.

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SECTION 508 STONE MATRIX ASPHALT (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (PLANT) (cont'd)	Job Mix Formula (JMF)	508.03 Contractor	Design	-----	1/mix type/plant				10 days	Contractor shall submit to the Proj. Engr. the proposed job mix formula with supporting design data. Approval by the Dist. Lab Engr. is required prior to starting work.
		508.04 Contractor Proj. Engr.	Valid.	Contractor & Proj. Engr.	1/JMF	-----	-----	-----	-----	Five (5) samples on 1st days production or max. 2,000 tons for validation
	Loose Mixture (Maximum Theoretical Specific Gravity) G_{mm}	508.05 Contractor	Quality Control	Contractor S 203	2/sublot	suitable sampling bucket	-----	-----	1 day	Aged or Unaged. May use 1 QA in lieu of 1 QC.
		508(060)(a) Proj. Engr.	Accept.	Proj. Engr. S 203	1/sublot	suitable sampling bucket	-----	-----	1 day	-----
	Loose Mixture (Asphalt Coating)	503.08 Contractor	Design/ Quality Control	Contractor S 203	1/JMF*	1 gal friction top can	-----	-----	-----	*Sample only if coating is questionable.
		503.08 Proj. Engr.	Accept.	Proj. Engr. S 203	1/JMF*	1 gal friction top can	-----	-----	1 day	*Sample only if coating is questionable
	Loose Mixture (Asphalt Draindown)	508.03 Contractor	Design	Contractor	1/JMF	1 gal friction top can	-----	-----	-----	-----
		508.06(b) Proj. Engr.	Accept.	Proj. Engr. S 203	1/lot	1 gal friction top can	-----	-----	-----	-----

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SECTION 508 STONE MATRIX ASPHALT (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (Plant) (Cont'd)	Loose Mixture (Gradation)	508.05 Contractor	Quality Control	Contractor S 203 & S 605	1/sublot	suitable sampling bucket	-----	-----	-----	-----
		508.06 Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	1/sublot	-----	-----	-----	1 day	-----
		508.06 Dist. Lab	IA	Dist. Lab S 203	-----	-----	-----	-----	7 days	See Independent Assurance Program S 701. Whenever possible, sample at same time acceptance sampling is done.
	Loose Mixture* (Temperature)	503.08 508.08 Contractor	Quality Control	Contractor S 605	2/sublot	-----	-----	-----	-----	*Temperature of mixture at discharge chute.
		503.03 508.08 Proj. Engr.	Accept.	Proj. Engr. S 605	1/sublot*	-----	-----	-----	1 day	*Temperature of mixture in truck at plant.
ASPHALTIC CONCRETE (In-Place)	Density	508.06(d) Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	3/sublot	4 or 6 in. diameter core	-----	-----	1 day	-----
		508.06(d) Dist. Lab	Verif.	Proj. Engr. S 203 & S 605	1/sublot	4 or 6 in. diameter core	-----	-----	5 days	-----
		508.06(e) Dist. Lab	IA	Dist. Lab S 203	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					
	Longitudinal Surface Tolerance	508.05 502.10(b) Contractor	Quality Control	Contractor TR 644	each wheelpath segment	-----	-----	-----	-----	Applies to travel lane wearing and binder. Applies to shoulder, parking, airport runway and taxiway wearing.
		508.06(e) 502.11(b) Contractor observed by Proj. Engr.	Accept.	Contractor observed by Proj. Engr. TR 644	each subplot	-----	-----	-----	2 days	Applies to travel lane, wearing and center two lanes for airport.

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SECTION 508 STONE MATRIX ASPHALT (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (IN-PLACE) (Cont'd)	Loose Mixture* (Temperature)	508.08 Proj. Engr.	Accept.	Proj. Engr.	2/sublot	-----	-----	-----	1 day	*Temperature of mixture at entry of MTV.
	Transverse Surface Tolerance, Cross Slope and Grade	502.10(b) 508.05 Contractor	Quality Control	Contractor S 605	2/day*	-----	-----	-----	-----	*As needed to control project within specification requirements.
		502.11(b) 508.06(e) Proj. Engr.	Accept.	Proj. Engr. S 605	1/day*	-----	-----	-----	1 day	*Test at selected locations for conformance to specifications.
	Thickness & Width	502.12 508.01 Dist. Lab	Accept.	Dist. Lab TR 602	*	-----	-----	300 lin ft per location	3 days	*Applies to mixture for payment on a cubic yd or sq yd basis.
ASPHALTIC MATERIAL	Asphalt Cement (PG 76-22M)	1002 Mat. Lab	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt friction top can	CA 7	-----	5 days	(QPL 41) Non Self Certified Must have tank approved by Mat. Lab prior to shipping whenever asphalt cement is added or modified. DOTD results used for approval.
		1002 Refinery	Prelim. Source Approval	Refinery S 201	1/supplier tank	1 qt friction top can	CA 7	-----	2 hrs during working hours	(QPL 41) Self Certified Supplier, shall sample and test each tank in accordance with quality control plan whenever asphalt cement is added to modified and supply CA to Mat. Lab along with 1 qt sample for verification testing. Supplier results used for approval.
		1002 Proj. Engr.	Accept.	-----	-----	-----	CD 8 & 9	-----	5 days	(QPL 41) One CD to accompany each transport.

[illegible]

SECTION 509 COLD PLANING ASPHALTIC PAVEMENT

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
COLD PLANED SURFACE	Longitudinal Surface Tolerance* (for single lift overlays only)	502.10(b) 509.03(b) Contractor	Quality Control	Contractor TR 644	each wheelpath segment	-----	-----	2,000 yd ²	-----	*When a single lift is to be placed over the cold planed surface it must meet the requirements of binder course in Section 502 of this Manual. See table 502-8b
	Transverse Surface Tolerance, Cross Slope and Grade*	502.10(b) Contractor	Quality Control	Contractor	2/day*	-----	-----	-----	-----	*As needed to meet requirements of binder. See table 502-4
TEMPORARY PAVEMENT MARKING	SEE SECTION 713 OF THIS MANUAL.									

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SECTION 510 ASPHALTIC CONCRETE PAVEMENT PATCHING, WIDENING AND JOINT REPAIR

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE		For details on Additives, Aggregates, Asphalt Cements, Asphaltic Concrete, Asphaltic Tack Coat, Asphalt Mix Release Agent and Mineral Filler, See Section 502 of this Manual.						-----	-----	-----
	Density	502.11(a) Proj. Engr.	Accept.	Proj. Engr. S 203	3/sublot	4 or 6 in. diameter core		-----	1 day	Top 4 inches of finished section.